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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/970,935	10/05/2001	Noriko Miwa	214659US0	3489
22850 7	590 04/14/2003			
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			EXAMINER	
1940 DUKE STREET ALEXANDRIA, VA 22314			WONG, LESLIE A	
			ART UNIT	PAPER NUMBER
			1761	
			DATE MAILED: 04/14/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/970,935

Applicant(s)

Miwa et al.

Examiner

Leslie Wong

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	The MAILING DATE of this communication appears of	n the cover sheet with the correspondence address			
Period fo	or Reply	O EVENES ALL MONTHIS EDOM			
A SHO	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM				
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the					
mailing	date of this communication.	statutory minimum of thirty (30) days will be considered timely.			
If NO a	eriod for reply is specified above, the maximum statutory period will apply and to reply within the set or extended period for reply will, by statute, cause the	(will expire SIX (6) MUNTHS from the maining date of this contributeation.			
- Any rep	bly received by the Office later than three months after the mailing date of this	s communication, even if timely filed, may reduce any			
earned Status	patent term adjustment. See 37 CFR 1.704(b).				
	Responsive to communication(s) filed on October 23	, 2002, and January 22, 2003			
2a) 💢	s action is FINAL . 2b) \square This action is non-final.				
3) 🗆	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
	ion of Claims				
4) 💢	Claim(s) 2-21	is/are pending in the application.			
4	a) Of the above, claim(s)	is/are withdrawn from consideration.			
5) 🗔	Claim(s)	is/are allowed.			
	Claim(s) 2-21				
	Claim(s)				
		are subject to restriction and/or election requirement.			
	tion Papers				
• •	The specification is objected to by the Examiner.				
10)	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.			
	If approved, corrected drawings are required in reply to				
12) 🗌	The oath or declaration is objected to by the Examir	ner.			
	under 35 U.S.C. §§ 119 and 120				
13)💢	Acknowledgement is made of a claim for foreign pri	ority under 35 U.S.C. § 119(a)-(d) or (f).			
a) 🕽	⟨ All b) □ Some* c) □ None of:				
	1. X Certified copies of the priority documents have	e been received.			
	2. Certified copies of the priority documents have been received in Application No				
	application from the International Burea	icuments have been received in this National Stage ou (PCT Rule 17.2(a)).			
	ee the attached detailed Office action for a list of the				
	Acknowledgement is made of a claim for domestic				
	The translation of the foreign language provisional				
	Acknowledgement is made of a claim for domestic	priority under 55 0.5.6. 33 125 anotor 121.			
Attachm	nent(s) otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).			
	otice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)			
	formation Disclosure Statement(s) (PTO-1449) Paper No(s), 10, 14	6) Other:			

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With respect to the Information Disclosure Statement submitted October 23, 2002 it is noted that JP 07134947 A does not appear to be related to the claimed invention.

Upon further review, the restriction requirement of January 13, 2003 is removed and all claims will be examined.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dickinson et al in view of Jiang et al (JFS, Vol. 65, No. 2, 2000, pages 241-245) and Soeda et al (US Patent No. 6,383,533).

Dickinson et al disclose the addition of transglutaminase and a reducing agent to milk (see abstract).

The claims differ as to the specific reducing agent used.

Jiang et al disclose the combination of transglutaminase and a reducing agent where the combination serves to improve product quality (see entire document).

Soeda et al disclose the combination of transglutaminase and thiol group containing materials such as glutathione, cysteine, and yeast extract, where these materials serve to allow

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transglutaminase to exert its activity and stably retain the activity (see entire patent, especially column 9, lines 25-33).

Applicant attaches no criticality to the selection of reducing agent (see page 13 of the specification) and in the absence of a showing to the contrary, the selection is merely seen to be a matter of choice and well-within the skill of the art.

It would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to use any of the claimed reducing agents in that of Dickinson et al as taught by Jiang et al and Soeda et al because the selection and manipulation of known reducing agents in combination with transglutaminase is conventional in the art.

Applicant's arguments filed October 23, 2002 are moot in view of the new grounds of rejection.

In the absence of unexpected results, it is not seen how the claimed invention differs from the teachings of the prior art. Applicant's claims are drawn to a combination of known components which produces expected results, see In re Kerkhoven 205 USPQ 1069 and In re Gershon 152 USPQ 602.

All of the claim limitations and arguments have been considered. None of them are seen as serving as basis for patentability.

No claim is allowed.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie Wong whose telephone number is (703) 308-1979. The examiner can normally be reached on Tuesday-Friday.

The fax number for this Group is (703) 872-9310 for non-final responses and (703) 872-9311 for after-final responses.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Leslie Wong
Primary Examiner

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LAW April 10, 2003